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SOUTHERN FLYING **SQUIRRELS** by Jim Rathert

## **6** Nature's Zombies For some animals, zombies are all too real.

### 10 Super Squirrels

It's not a bird or a plane, it's a flying squirrel!

### DEPARTMENTS

- 1 What Is It?
- You Discover
- Predator vs. Prey
- How To
- Wild Jobs
- Strange But True
- **Xplor More**



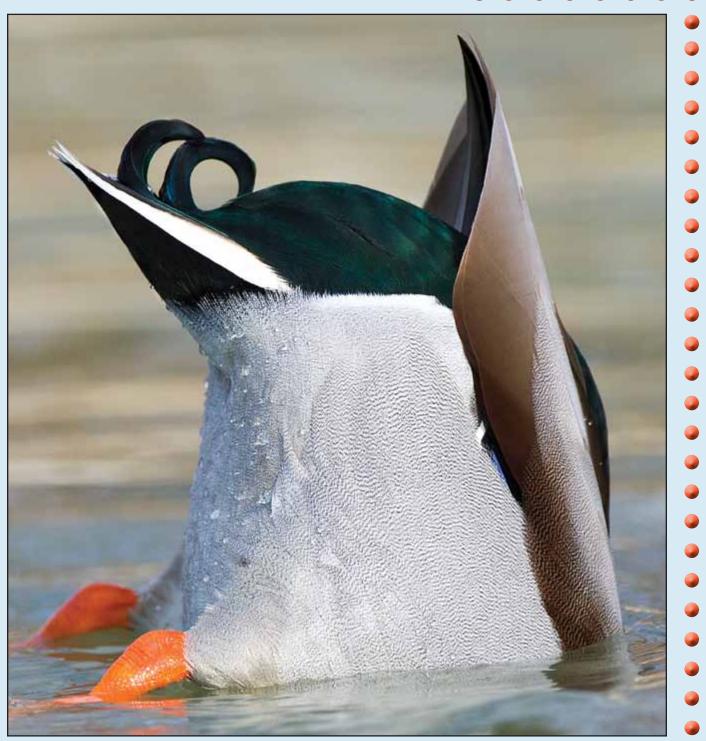
ON THE WEB

Visit *xplormo.org* for cool videos, sounds, photos, fun facts and more!



### DON'T KNOW?

Jump to Page 16 to find out.



- 1 huddle in puddles.
- 2 Insects and seeds fit the bill.

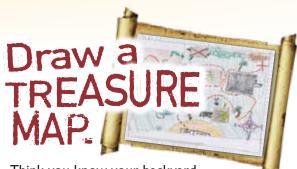
- **3** A little dabble do me.
- 4 Bottoms up.



Keeping a bird feeder provides easy meals for birds and hours of entertainment for bird-watchers. It also can help scientists learn where birds spend winter and how different bird species are faring. All you have to do is count the birds in your yard a few times each month and send your tallies to Project FeederWatch. For details,

flock to birds.cornell.edu/pfw.

ature hustles and bustles in autumn.
Birds fly south, leaves change color
and mammals scurry about, fattening
up for winter. There's lots to discover
in October and November. Here are
some ideas to get you started.



Think you know your backyard or favorite park like the back of your hand? Then draw a map of it. Show every tree, garden, fence and building. When you have finished, hide a box of trinkets somewhere in your yard, and mark the box's location with an "X" on your map. Then, gather a boatload of pirates—or your friends—and send them on a treasure hunt.



Owls throw up the hard, undigestible parts of their prey in a hairy, bone-filled lump called a pellet. Picking apart a puked-out pellet provides a fun and disgusting way to learn what the owl's been eating. Look for pellets below trees and fence posts, especially those splattered white with owl droppings. Wear plastic gloves to pick up pellets and wrap them in aluminum foil. Bake the wrapped pellets in a 325 F oven for 40 minutes. This will kill any germs in the pellets, making them safe to examine. Whose knew barf could be so fascinating?

# Don't miss the chance to Discover Nature at

See spiders and other creepy critters at

CHARLOTTE'S WEB OF LIFE.

Burr Oak Woods Conservation Nature Center, Blue Springs October 6, 6–9 p.m. For info, call 816-228-3766. Feed your feathered friends by building a BIRD FEEDER.

Rockwoods Reservation, Wildwood October 20, 10 a.m.—noon Register at 636-458-2236.

### Find tasty MUSHROOMS ANY TIME OF YEAR.

Cape Girardeau Conservation Nature Center October 18, 6:30–7:30 p.m., ages 8 and older, Register at 573-290-5218.



Now's the perfect time for a romp through the swamp at

Mingo National Wildlife Refuge near Puxico. Fall turns the swamp's cypress trees fiery red, river otters become active and easily seen, and swarms of waterfowl, warblers and other birds refuel at Mingo during migration. Hike the Swampwalk Nature Trail, drive one of the auto routes, or slip a canoe into a ditch or river (be sure to check at the visitor center to see which ones allow canoeing). For info, visit fws.gov/refuge/mingo.

SIGHT in your RIFLE

If your sharpshooting needs sharpening, head to one of the Conservation Department's shooting ranges. Five shooting ranges are staffed with Department employees and volunteers. These experts can give you the lowdown on how to sight in your deer rifle. If you have that process down, there are dozens of unstaffed ranges scattered throughout the state where you can fire several rounds before deer season. For details, aim your browser at mdc.mo.gov/node/6209.

Catch LEAF CREATURES.

Leaf litter—fallen leaves on the forest floor—is litterally crawling with bugs, and it's easy to get a good look at them. Just cut the bottom from a plastic milk jug and place it, spout down, atop a jar filled with water. Tape a stick to the jug and jar to keep them from tipping. Pack leaves loosely into the jug, then set the contraption in a sunny place. As the leaves warm, insects inside will crawl downward where it's cooler and eventually fall into the jar.

### these fun events.

Bag a deer during the YOUTH PORTION OF **FIREARMS** DEER SEASON.

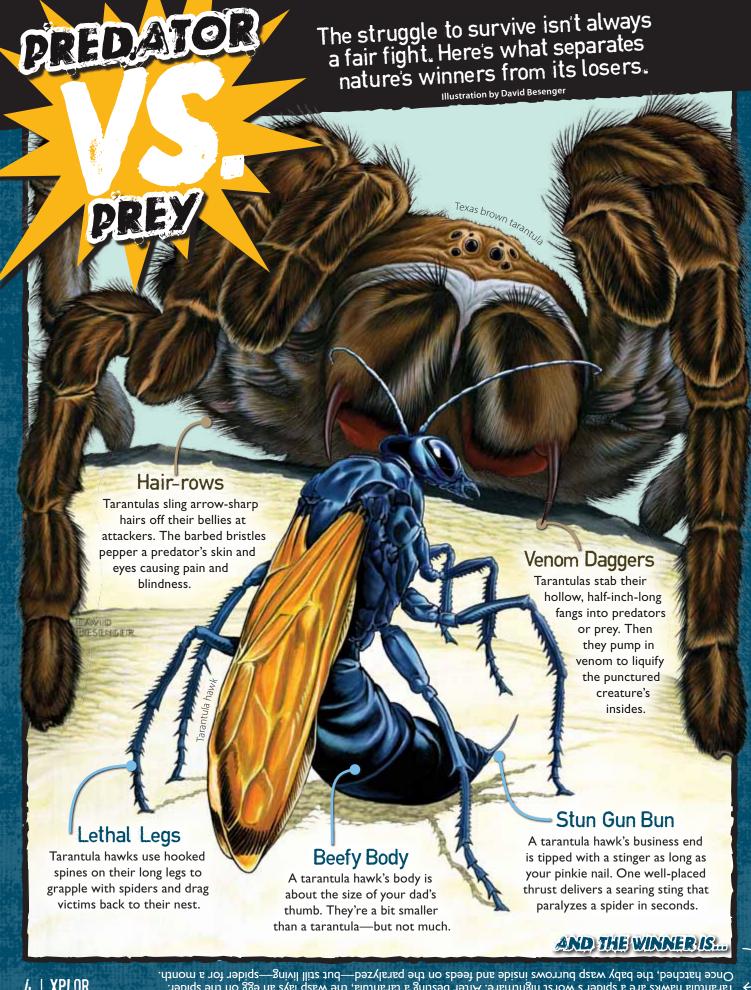
Statewide November 3-4 For info, visit mdc.mo.gov/node/3861. Take a halloween hike and dodge

#### ALIEN INVADERS.

Springfield Conservation Nature Center. October 25 and 26, 6:30-9:30 p.m. For info, call 417-888-4237.



Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at xplormo.org/node/2616.



Ou've shot your first deer, snapped a photo and attached your notched permit to the deer's leg.

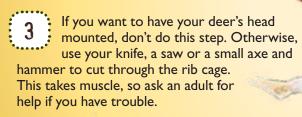
Now what? To keep the meat fresh, field dress the deer.

#### HERE'S WHAT YOU DO

Roll the deer onto its back.
Carefully make a small, shallow cut in the skin and muscle just below the deer's breast bone.



Insert your knife into this opening with the blade facing up. Using short, shallow strokes, cut through the skin and muscle from the deer's chest to between its back legs. Be careful not to cut into the deer's organs.





## HERE'S WHAT YOU NEED

- One dead deer (Never approach a deer unless you're sure it's dead—trust us on this one.)
- > Disposable plastic gloves
- > A clean, sharp knife
- > Paper towels
- > Rope
- > An experienced adult

Cut through the windpipe and esophagus.

Cut the connective tissue that holds the deer's organs to its backbone.
Roll the deer onto its side and scoop out

to its backbone.
the deer onto its
and scoop out
the organs, being
careful not to
tear any of them.

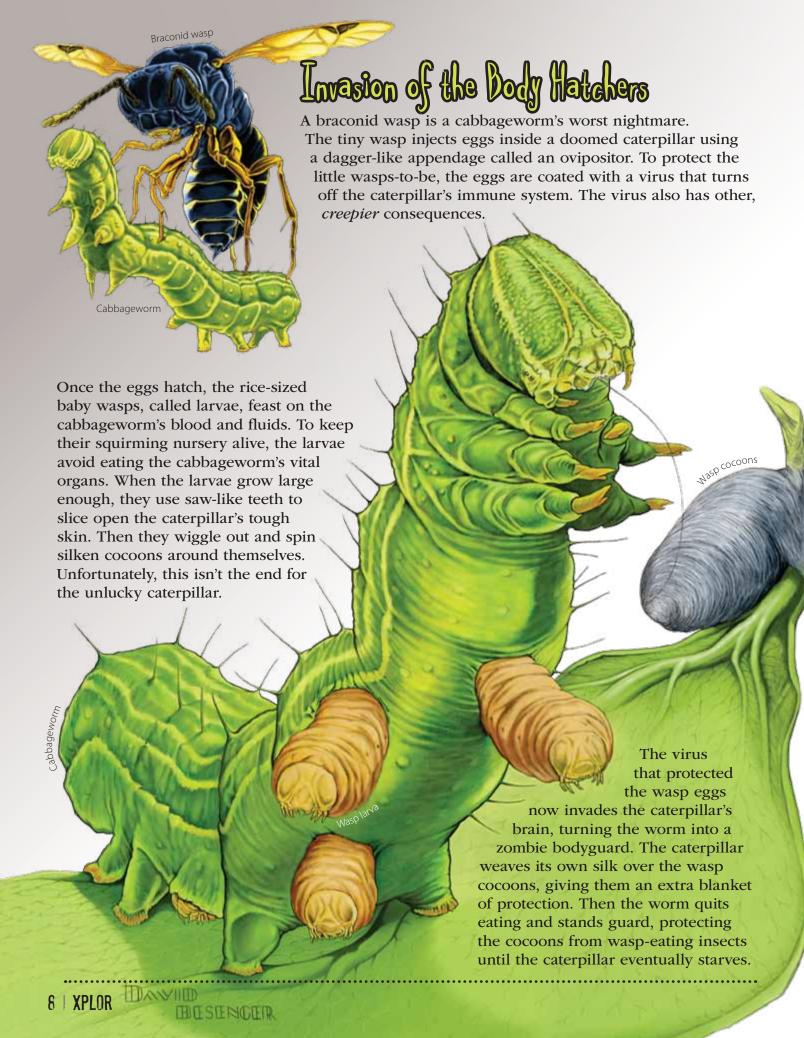
Use your knife, a saw or a small axe and hammer to cut through the pelvic bone. Guide the intestines through this opening, then cut around the anus to separate it from the rest of the deer.

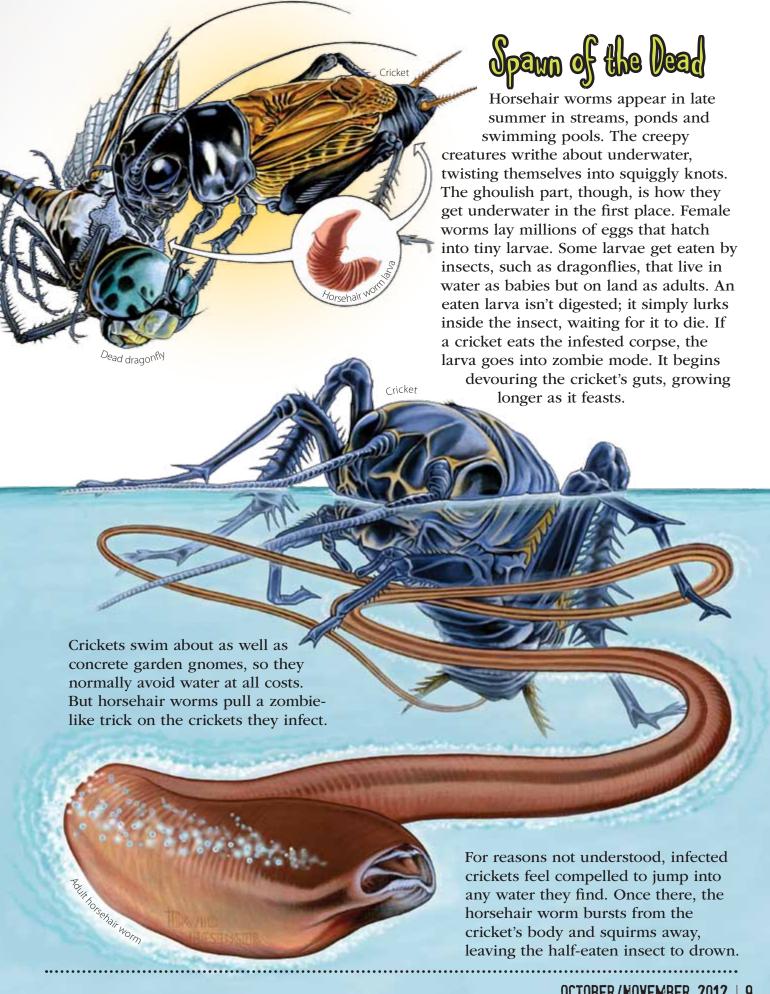
Use paper towels to clean any dirt, hair, feces or organ residue from the meat.

Prop the deer open with clean sticks, then hang it head up in a shady, breezy place. Let it cool and drain for about an hour before moving it.











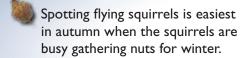
Take a field mouse, stretch it to chipmunk size, give it a squirrel's bushy tail, night-vision goggles and a daredevil's wingsuit, and you'd have a super squirrel—aka the southern flying squirrel.

### NIGHT-SHIFT NUT GATHERERS

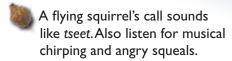
Although flying squirrels are quite common, most people have never seen one. That's because they're nocturnal. At night, while gray and fox squirrels are curled in their leafy nests dreaming of acorns, flying squirrels dive through the dark, gathering the real thing. To navigate at night, flying squirrels have huge eyes that catch the faintest of moonlight. And when it gets really dark, flying squirrels use long, sensitive whiskers to feel their way around.

# SOURREL SPOTTING

If you have oak or hickory trees in your yard, chances are you also have flying squirrels.



Let your eyes adjust to the dark.
Stay away from bright lights for about 30 minutes.



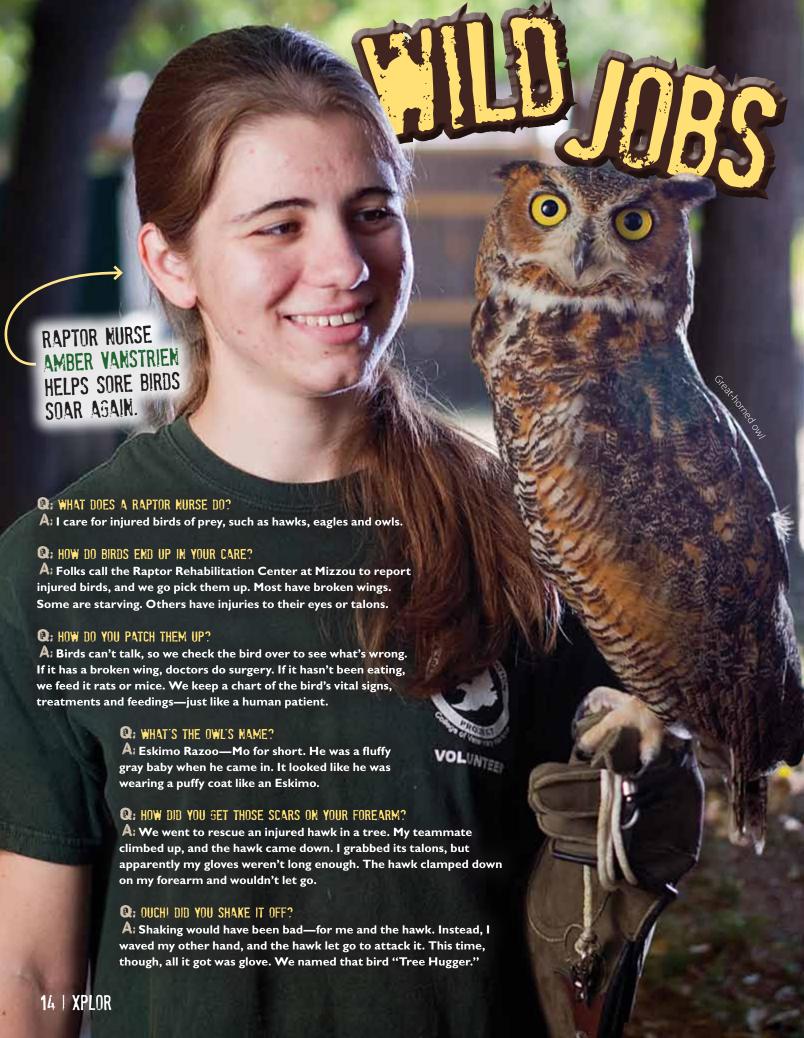
Put your bird feeder near a porch light. If you hear a soft whump, flip on the light to catch a squirrel gobbling seed.

Smear peanut butter on the bark of a tree and wait nearby. Shine a flashlight if you hear something.











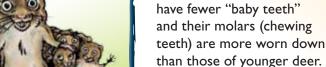
A cottontail can raise 35 rabbits in a year. Whew! That's a bunch of babies. But it pales compared to a PRAIRIE VOLE'S output. Missouri's most prolific mama mammal can produce 83 babies a year!



Frogsicle anyone? During winter,

WESTERM CHORUS FROGS

survive being frozen nearly solid for days on end. If that isn't amazing, consider this: While frozen, their hearts quit beating. They. Just. Stop.



BLACK-CAPPED CHICKADEES spend nearly every waking moment gathering food. Why?

STUFF THAT GOES ON IN NATURE



Open wide. Biologists estimate the age of a WHITE-TAILED **NFFR** by looking at the deer's teeth. Older deer

> Because the feathered fluffballs lose nearly a tenth of their weight on chilly nights. That's like a 180-pound man waking up 18 pounds lighter than when he went to bed.

**RED FOXES** have super-hero hearing. The crimson canines are particularly tuned to low-frequency sounds, such as those made by rodents rustling around underground. Foxes pounce with pinpoint accuracy even when prey is hidden under inches of snow.



can leap 40 times its body length. To do the same, you'd have to jump over 12 minivans parked end to end! The spider's spring comes not from big muscles but from jetting blood into its back legs causing them to—sproing—extend rapidly.



build teacup-sized nests and lash them to shrubs using spider silk. Some goldfinch nests are woven so tightly, they even hold water!



SHOVELMOSE STURGEOMS use their stretchy mouths like vacuum cleaners to suck insects and mollusks from the muck at the bottoms of rivers. Other fish follow along to snag morsels stirred

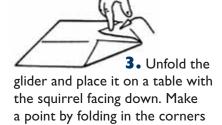




• Cut out your glider along the solid black line. Don't cut the dashed lines!



your glider in half along the dashed line marked "A" so that the squirrel picture is on the inside.



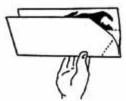
along the dotted lines marked "B."



**4.** Fold the tip of the point inward along dotted line "C."



6. Fold both wings down along dotted line "D."



5. Pick up the paper and refold line "A."



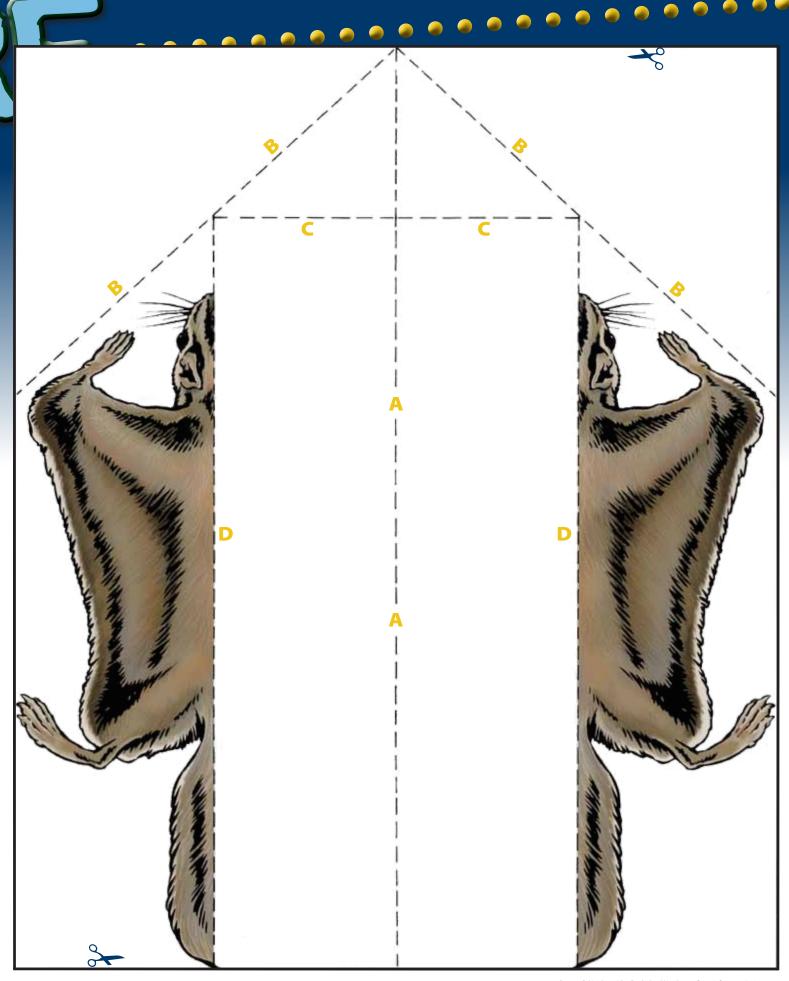
**7.** Stick a piece of tape over the tip of the glider and another below the squirrel's tail. Put a paperclip under the squirrel's nose and it's ready to glide! You can bend the tail slightly up or down to make your squirrel loop, turn or roll.

**ANSWER TO** 

Mallards belong to a group of ducks known as dabblers. Dabblers feed by dipping their heads underwater, leaving their bottoms high and dry. Like

most dabblers, mallards suck water in through their bills, let it squirt out the sides, and strain out seeds, snails and insects. Yum! Dabblers are also called puddle ducks because they live in shallow, marshy areas.





#### SUBSCRIBE ONLINE

xplormo.org/node/2618

FREE TO MISSOURI HOUSEHOLDS



Aw, nuts! During fall, blue jays gather acorns for winter. A jay can carry three acorns in its throat, one in its mouth and another in the tip of its beak. It flies to a hiding spot, buries the acorns and covers them with leaves. The busy birds even out-squirrel the squirrels. A single jay can stash 5,000 acorns each fall!